

# New York State Department of Transportation

## Yellow Flag NB2228W019

By: Ben Colangelo

Flag Date: April 11, 2022

Superseding Information:

This flag supersedes: YF NB2122W026

### Structure Information

**BIN: 1065318**

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

### Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 11, 2022 10:00:00 AM

Of: NYSDOT Region 11

### Signature Information

Signature: Ben Colangelo, P.E. 068498

Date: May 18, 2022

Reviewed By: Robert Kemp

Date: May 18, 2022

Attachments: 7

**Flagged Elements**

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 210</b>			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

**Flagged Condition Description**

Yellow Flag No. NB2228W019

Location: Span 210, Girder G1 at Pier 209.

Description: The end of Girder G1 in Span 210 at Pier 209 exhibits a diagonal thru crack, 1-3/4" long at the top cope. The girder frames into the web of the pier.

There has been no significant change since the previous inspection.

This Yellow Flag No. NB2228W019 is superseding Yellow Flag No. NB2122W026.

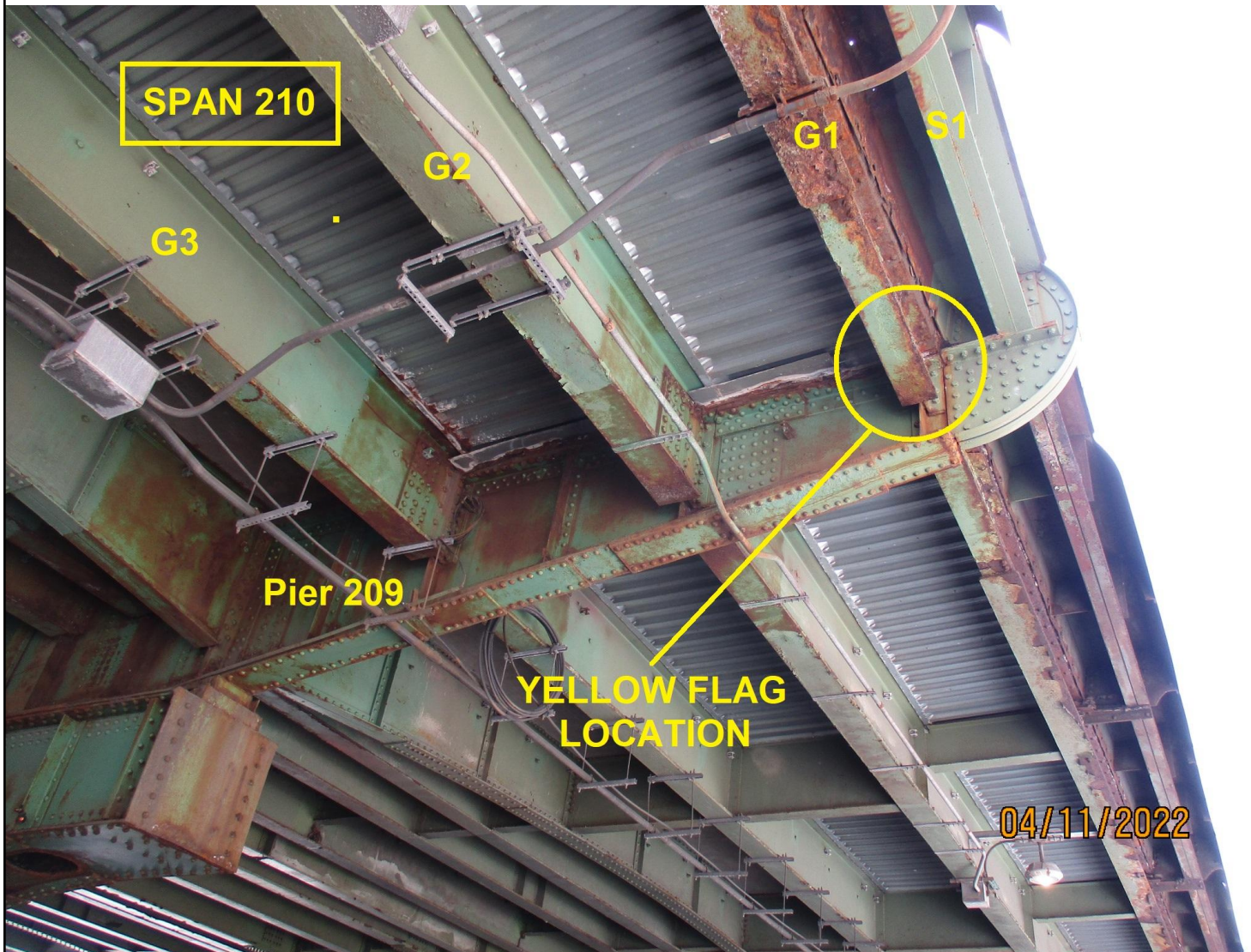
Notes:

1. The affected member Girder G1 is a load path redundant steel girder located approximately 12" from the curb. The girder depth is approximately 19.3 inches and has a thickness of 0.608 inches.
2. The top of the left side of the bottom flange has a heavy accumulation of dirt and debris from a gap between the curb plate and deck.
3. No deformation was observed in any part of Girder G1 connection to Pier 209.
4. The web of Girder G1 at the left side of the girder exhibits heavy corrosion over a 13"H x 1"-2" W area with 3/16"-1/4" section loss. The right-side of the girder web has up to 1/8" section loss at the upper and lower copes for 2" high.
5. The adjacent Girder (right) G2 has repair plates with moderate corrosion and is in fair condition.
6. The adjacent Stringer (left) S1 acts as a support for the railing and curb area above and is in good condition.
7. A double lane closure on 3rd Avenue Westbound with shadow vehicle and a 35' bucket truck is required to access the flagged location.

**Flag Photographs**

Photo Number: 1

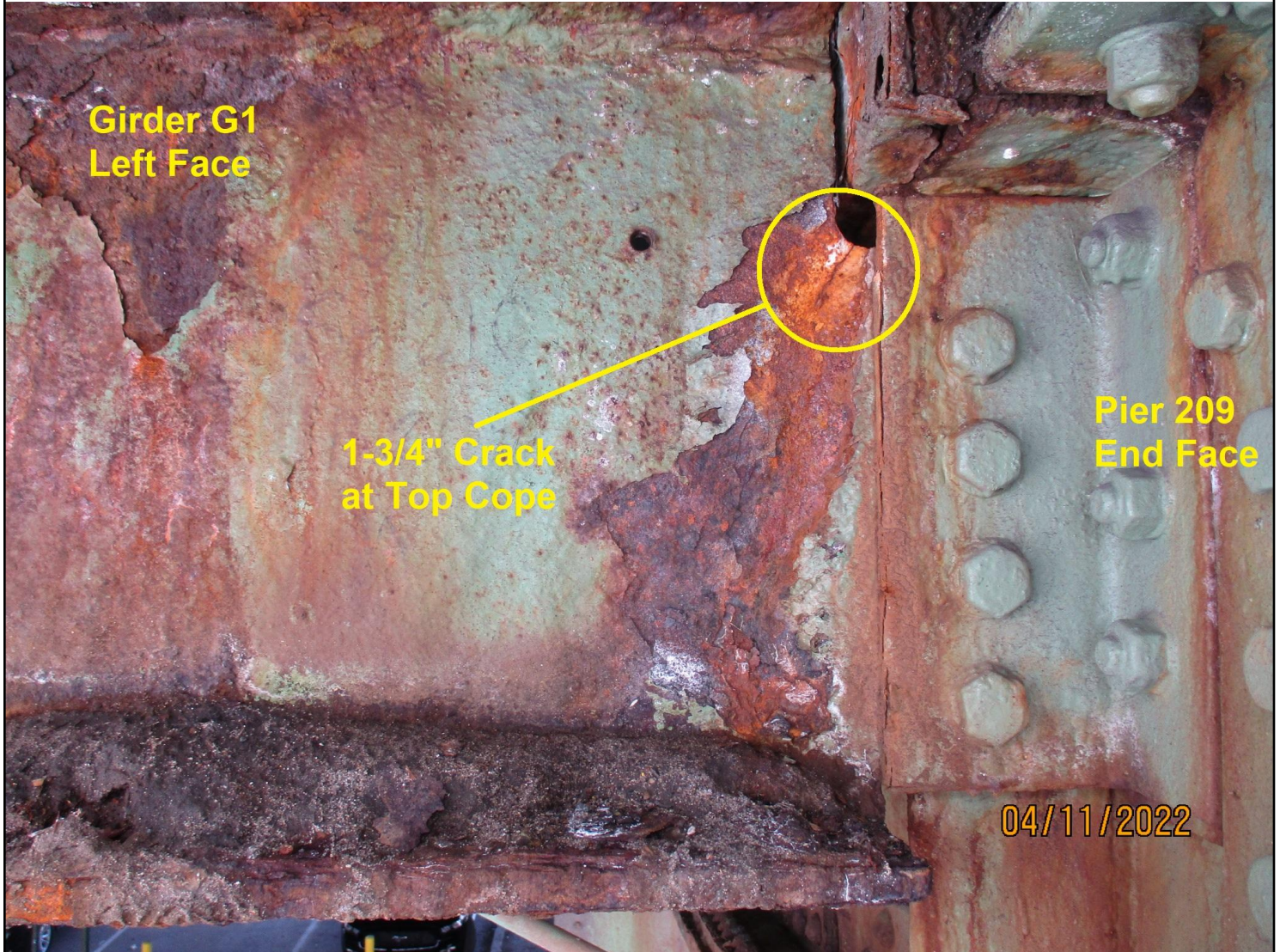
Photo Filename: IMG\_3843.JPG



**Attachment Description:** Span 210 Girder G1 at Pier 209. General view of the flagged location. Looking Begin.

Photo Number: 2

Photo Filename: IMG\_3815.JPG



**Attachment Description:** Span 210 Girder G1 at Pier 209. General view of the left side of web showing the 1-3/4"L crack at the top cope. Looking Right. Note: Heavy accumulation of dirt and debris on top of bottom flange.

Photo Number: 3

Photo Filename: IMG\_3822.JPG



**Attachment Description:** Span 210 Girder G1 at Pier 209. Close-up view of the flagged location showing a diagonal thru crack 1-3/4" long at the top cope. Looking Right.

Photo Number: 4

Photo Filename: IMG\_3829.JPG

**SPAN 210**  
**Girder G1 at Pier 209**  
**Left Face**

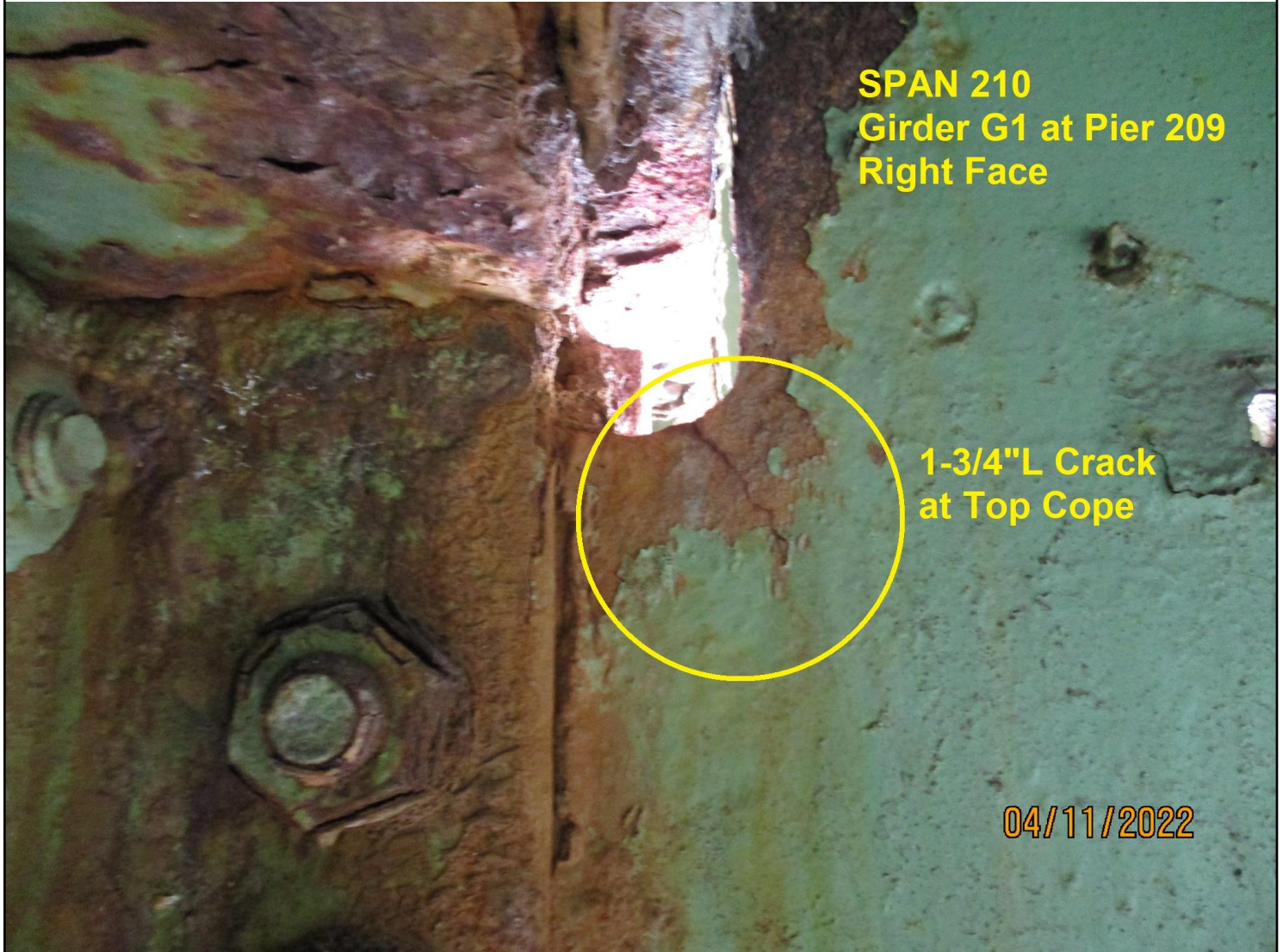
**1-3/4" L Crack**  
**at Top Cope**

04/11/2022

**Attachment Description:** Span 210 Girder G1 at Pier 209. Close-up view of the flagged location showing a diagonal thru crack 1-3/4" long at the top cope after dye test was performed. Looking Right.

Photo Number: 5

Photo Filename: IMG\_3833.JPG



**Attachment Description:** Span 210 Girder G1 at Pier 209. Close-up view of the flagged location showing a diagonal thru crack 1-3/4" long at the top cope. Looking Left.

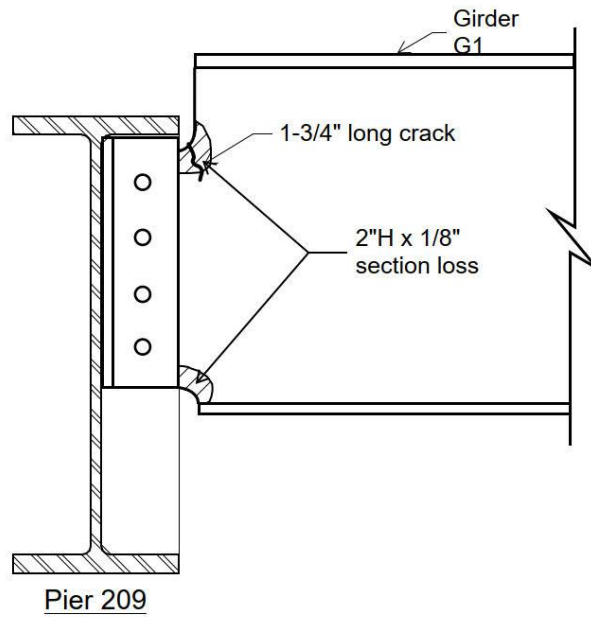
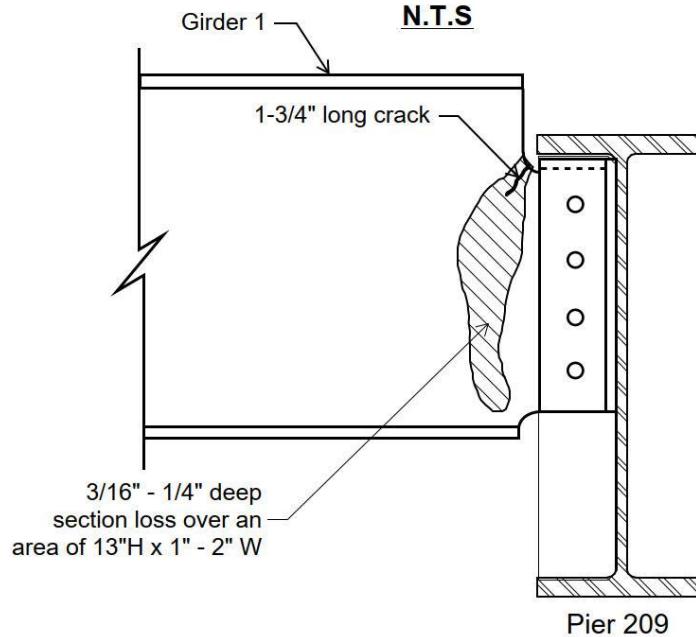
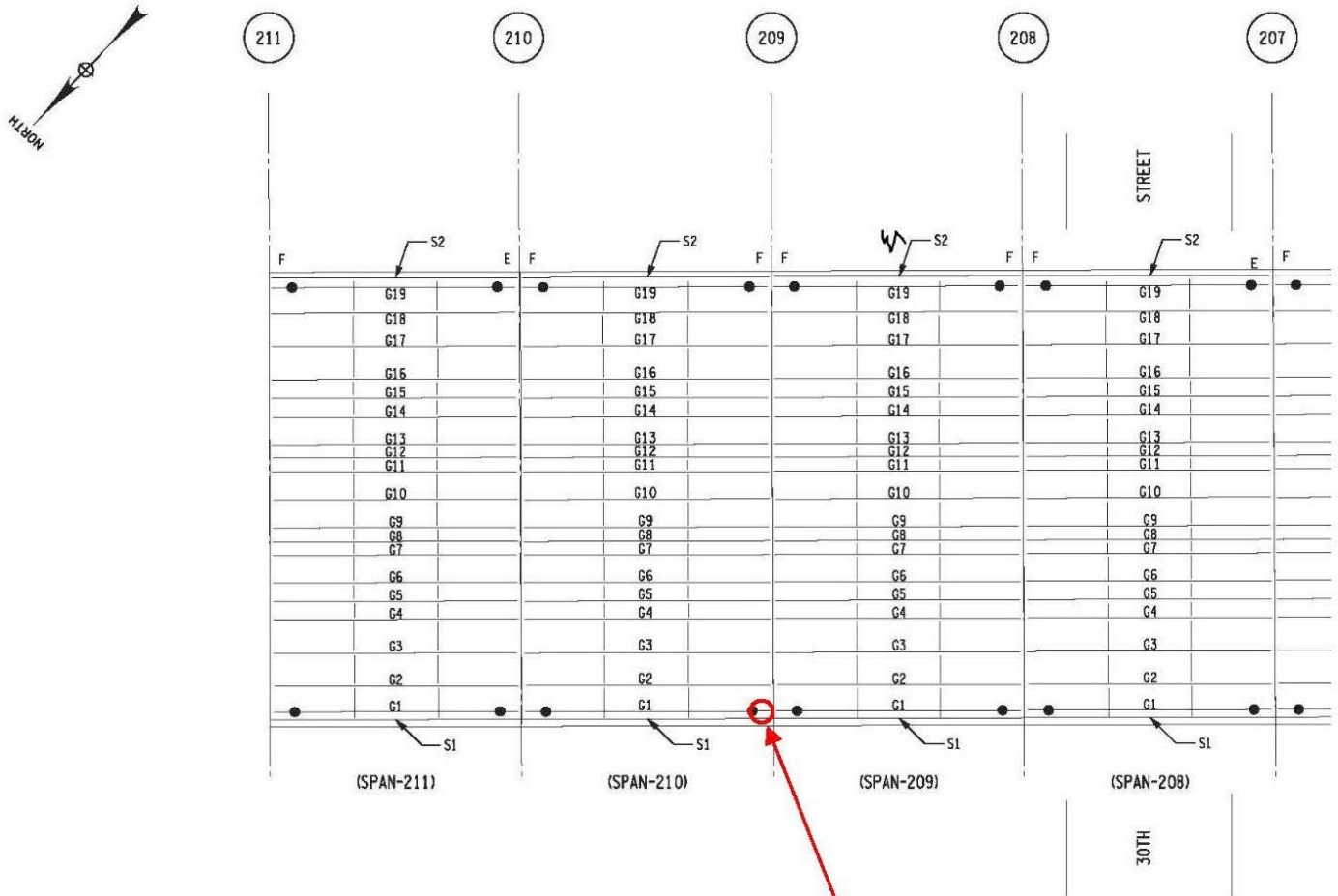
Photo Number: **6**Photo Filename: **Sketch of Span 210.jpg****SPAN 210, GIRDER G1 BEAM END AT PIER 209****(LOOKING LEFT)****N.T.S****SPAN 210, GIRDER G1 BEAM END AT PIER 209****(LOOKING RIGHT)****N.T.S*****Attachment Description: SN 210 G1 at Pier 209 Sketch***

Photo Number: 7

Photo Filename: SN210 G1\_Framing Plan - 2022.jpg

LEGEND:

E - Expansion Bearing Element PR311

F - Fixed Connection

G - Girder Element 107

S - Stringer Element 113

- End of partial length cover plate. Category E' requires 100% Hands on Inspection.

**Attachment Description: SN 210 G1 at Pier 209 Framing Plan**